





### INSTRUCTION MANUAL

JANUARY 1976

## MABLE OF COLFELIS

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Trouble Shooting
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Cabinet Interconnection Schematic
Power Supply Schematic
Memory Boards Schematics
Sync Boards Schematics
Warranty

### **INSTALLATION:**

Open back of cabinet and MAKE SURE ALL BOARDS ARE PROPERLY SEATED INTO CARD CAGE. Plug into AC Power.

### PRICE PER GAME SWITCH:

Located at the top of the memory board is the price per game switch. Up is one coin per game and down is two coins per game.

### **GAME TIME POT:**

Directly below the price per game switch is the game time pot.

### WHITE PLANE SHOT RANGE POT:

Directly below the game time pot is the white plane shot range pot. Turning clockwise increases shot range. Range should be adjusted to be equal to black plane range.

### VOLUME 2 POT (Location "2"):

Volume for white plane is controlled by the top pot on the *sync* board. Clockwise increases volume.

### VOLUME 1 POT (Location "1"):

Directly below the volume 2 pot is the black plane volume. Operates same as volume 2 pot.

NOTE: FOLLOWING CONTROLS ARE FACTORY SET. QUALIFIED TECHNICAL PERSONNEL ONLY SHOULD ADJUST.

### **NOISE VOLUME:**

Location #4 controls shot and boom plane relative volume.

### PITCH 2:

Controls pitch of black plane motor.

### TONE 2:

Controls tone of black plane motor.

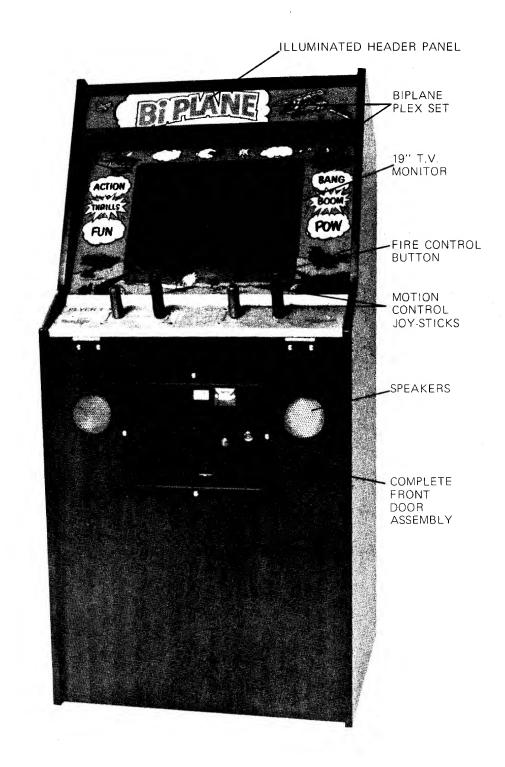
### PITCH 1:

Same as pitch 2 for white plane.

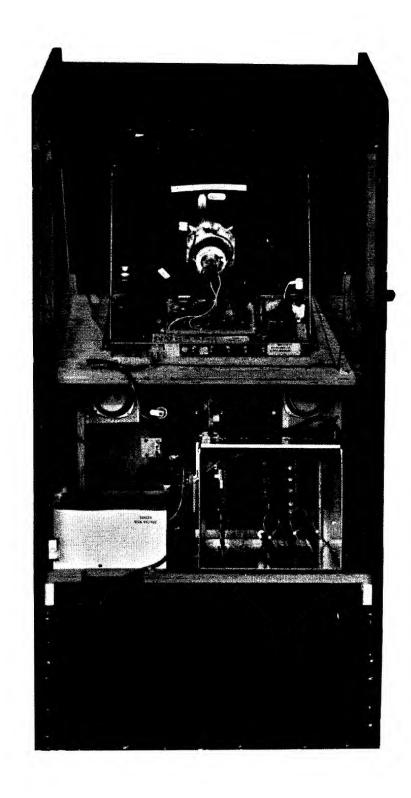
### TONE 1:

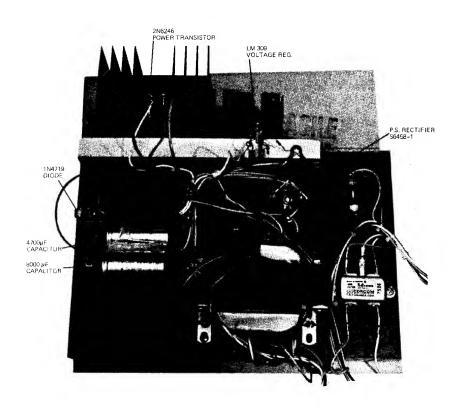
Same as tone 2 for white plane.

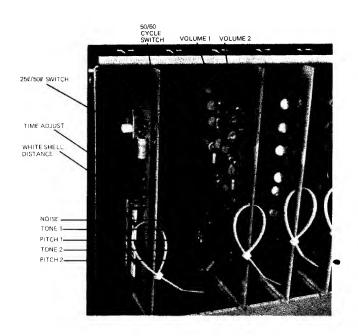
NOTE: BE SURE ALL BOARDS ARE PROPERLY SEATED, INCLUDING INTER-CONNECT BOARDS IN HARNESS CONNECTOR.



# Detail A Typical — 4 Places







## THOOLS HOOLING

### TROUBLESHOOTING GUIDE

### **AUDIO**

- 1. Check speakers and connections
- 2. Adjust audio controls on synch board
- 3. Change synch board

### VIDEO (RIPPLE, DISTORTION, BLANK SCREEN)

- 1. Measure +5V
- 2. Check interlock switches
- 3. Shorted diode in P.S. rectifier
- 4. Change synch board

### VIDEO (SHAKE)

- 1. Adjust T.V. controls
- 2. Change crystal/4024 I.C. on synch board

### **MOTION**

- 1. Check control panel switches
- 2. Switch motion boards if problem persists on same side (ie. black or white plane) change memory board

### **SCORING**

1. Change memory board

Important: Severe damage will occur if any board but the synch board is inserted in synch board socket.

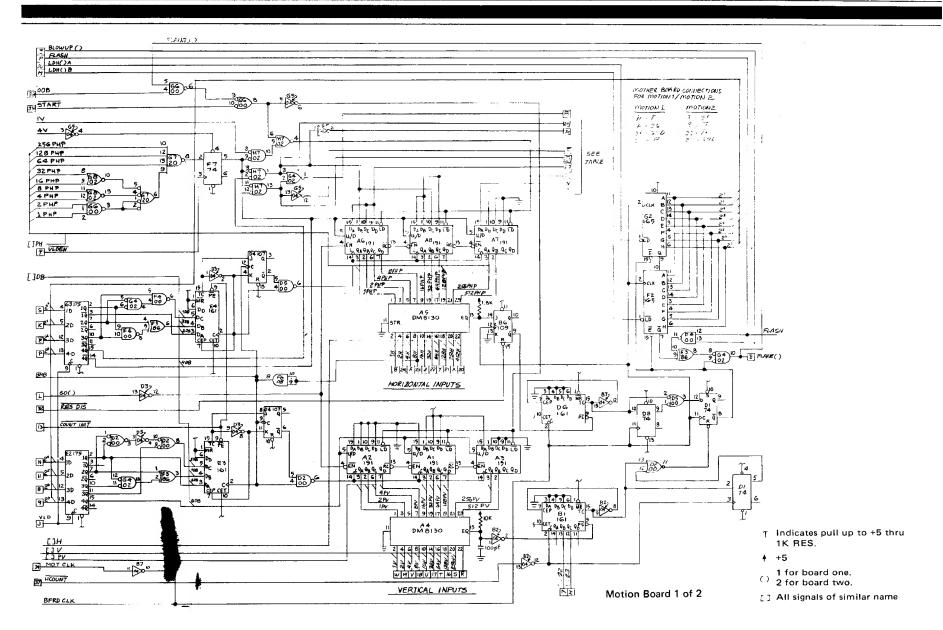
- 1. Check control panel switches
- 2. Switch motion boards if problem persists on same side (i.e., black or white plane) change memory board

### **PARTS LIST**

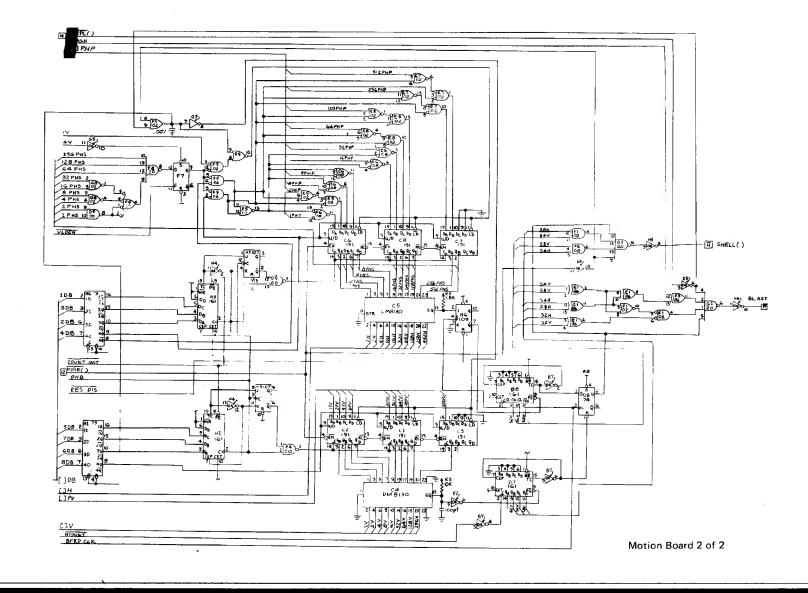
PART #	DESCRIPTION	UNIT PRICE
300-200	Power Supply	75.00
500-206	Mother Board	75.00
500—201	Motion Board	250.00
500-202	Synch Board	250.00
500204	Memory Board	250.00
500-200	Set of PC Boards w/Cage	750.00
600-200	Control Panel	75.00
400-100	Coin Door Assembly	55.00
34-64581	P.S. Rectifier	10.29
36-LM309	P.S. Voltage Regulator	3.54
42-0019	19" Monitor, Motorola	295.00
41-5006	Speakers	5.70
46-0051	Switch, Cherry, E51	2.82
46-0903	Fire Button, Switch	1.59
470001	Coin Counter	9.72
82-0001	P.S. Transformer	42.75
35–14318	Crystal 14.318 MHZ	5.04
37-4024	4024 I.C.	6.69
32-2N6246	2N6246 Power Transistor	3.69

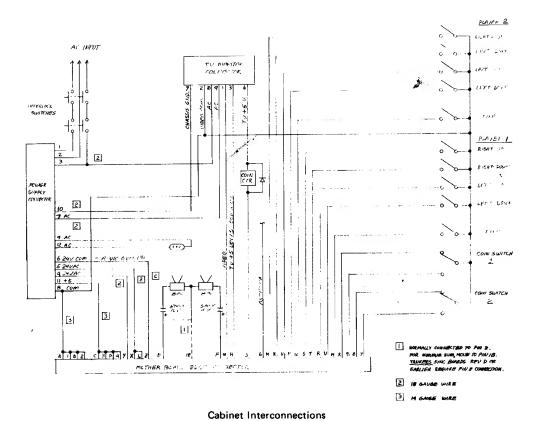
### Minimum Order - \$25.00

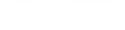
### DRICE LIST

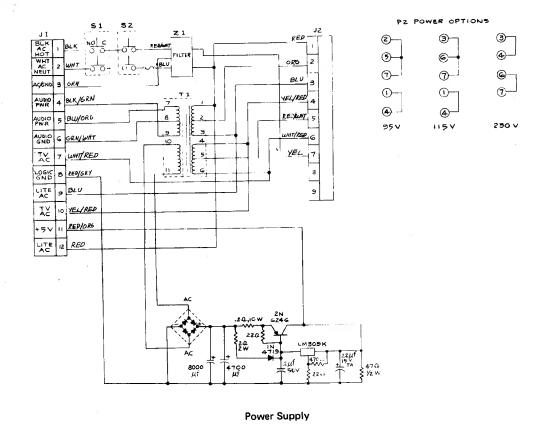


### **SCHEWYLIC2**

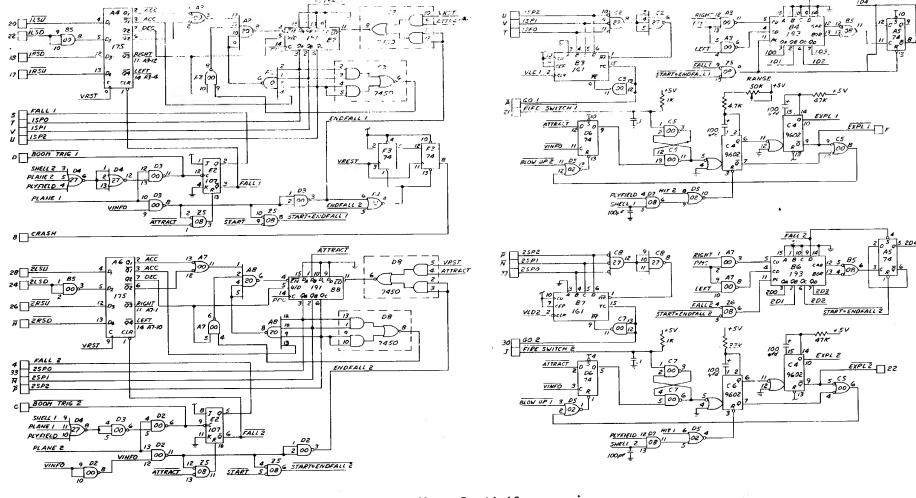




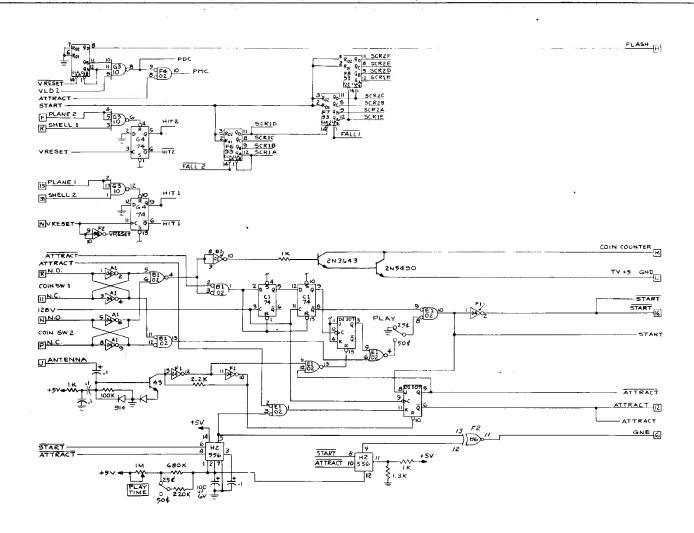




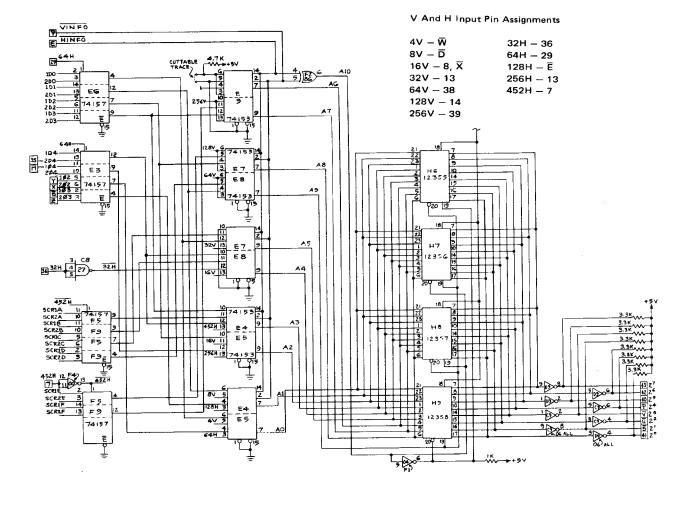
### SCHEWATICS



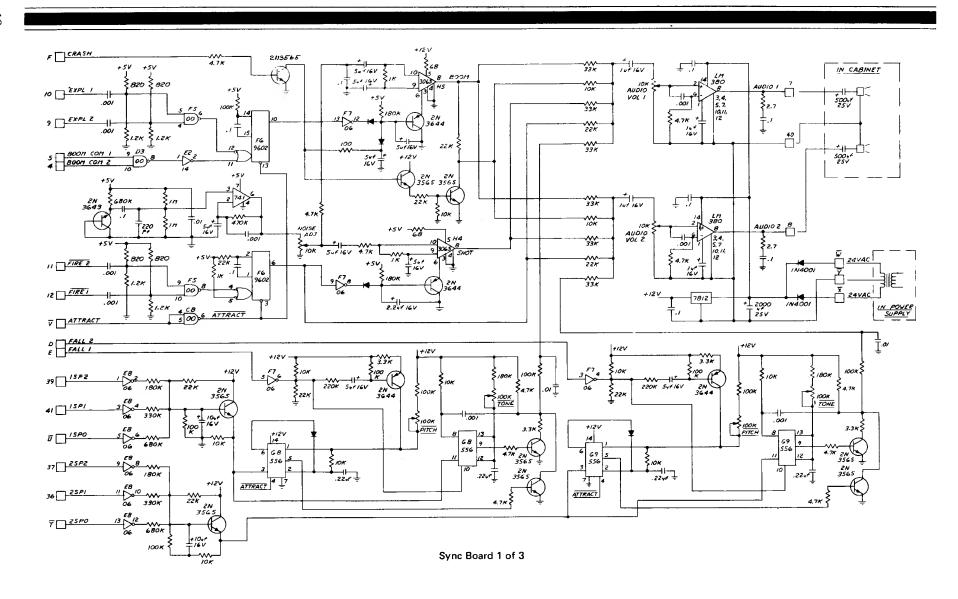
Memory Board 1 of 3



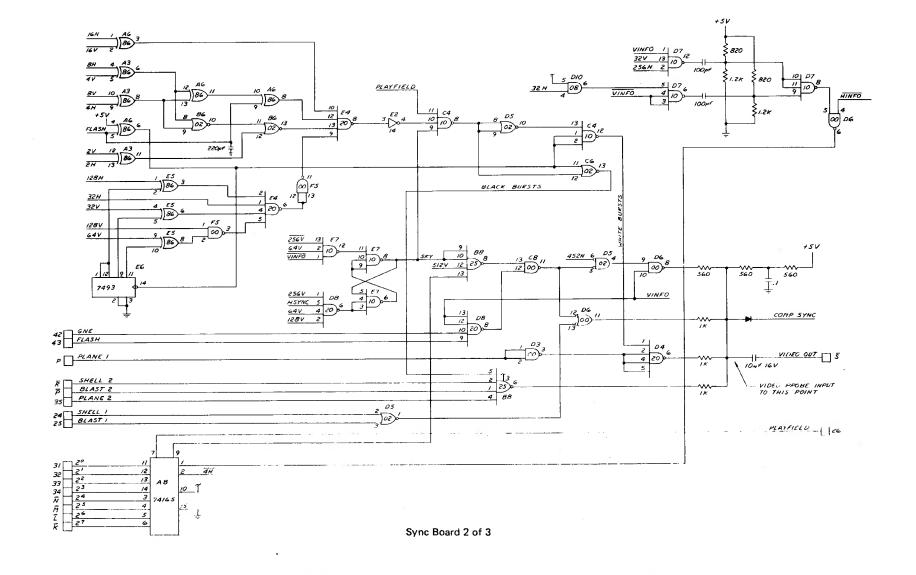
Memory Board 2 of 3

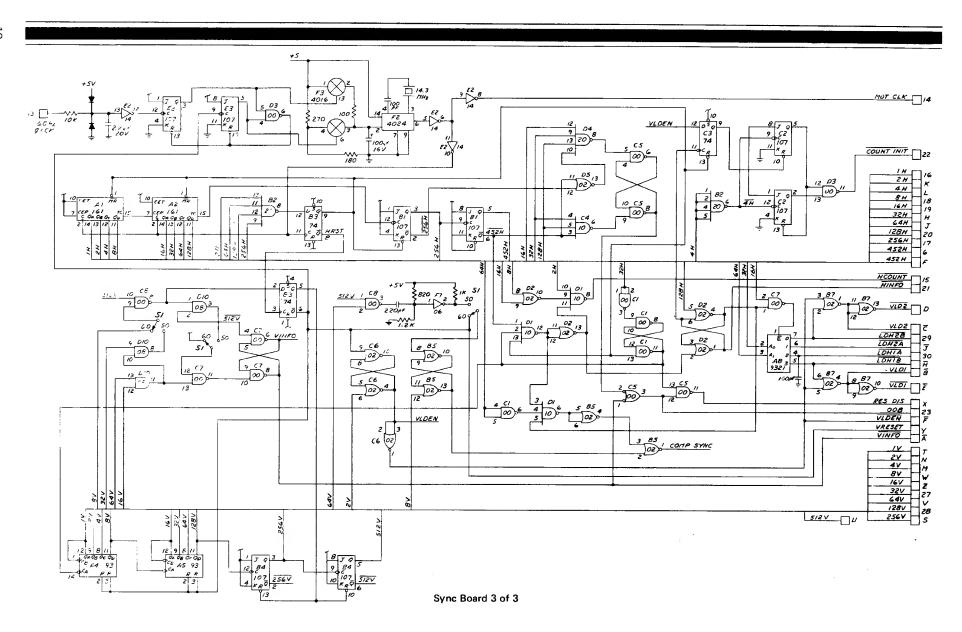


Memory Board 3 of 3



### SCHEWYLICZ





### FUN GAMES INC. 8410 AMELIA ST., OAKLAND, CA 94621 (415) 568-5225

